PATENT COOPERATION TREATY



NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)
(PCT Rule 72.2)

From the I RNATIONAL BUREAU

To:

OSUGA, Yoshiyuki 3rd Fl., Nibancho Bldg. 8-20, Nibancho Chiyoda-ku, Tokyo 102-0084 JAPON



Date of mailing (day/month/year) 14 July 2005 (14.07.2005)	
Applicant's or agent's file reference Z3918/3GE505	IMPORTANT NOTIFICATION
International application No. PCT/JP2003/014463	International filing date (day/month/year) 13 November 2003 (13.11.2003)
Applicant	ZEPHYR CORPORATION et al

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

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The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AU, JP, US

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

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Form PCT/IB/338 (July 1996)

PATENT COOPERATION REATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

· (PCT Article 36 and Rule 70)

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Applicant's or agent's file reference Z3918/3GE505	FOR FURTHER	ACTION	See Form PCT/IPEA/416			
International application No.	International filing	late (day/month/year)	Priority date (day/month/year)			
PCT/JP2003/014463	13 November 2	2003 (13.11.2003)	15 November 2002 (15.11.2002)			
International Patent Classification (IPC) or n H02P 9/00	ational classification a	and IPC				
Applicant	ZEPHYR CO	PORATION				
This report is the international prelin Authority under Article 35 and trans	ninary examination re	port, established by this t according to Article 36	International Preliminary Examining 5.			
2. This REPORT consists of a total of		_	heet.			
3. This report is also accompanied by A	-	_				
a. (sent to the applicant and	to the International B	ureau) a total of	sheets, as follows:			
and/or sheets cont Administrative Ins	aining rectifications a tructions).	uthorized by this Autho	een amended and are the basis of this report rity (see Rule 70.16 and Section 607 of the			
sheets which super beyond the disclos Supplemental Box	sure in the internation	ut which this Authority al application as filed, a	considers contain an amendment that goes as indicated in item 4 of Box No. I and the			
b. (sent to the Internation	al Bureau only) a, conta	uining a sequence listing	be and number of electronic carrier(s)) g and/or tables related thereto, in computer Sequence Listing (see Section 802 of the			
4. This report contains indications relati	ng to the following it	ems:				
Box No. I Basis of the rep	ort					
Box No. II Priority						
Box No. III Non-establishm	ent of opinion with re	egard to novelty, inventi	ve step and industrial applicability			
Box No. IV Lack of unity o	f invention					
Box No. V Reasoned states citations and ex	nent under Article 35 planations supporting	(2) with regard to novel	ty, inventive step or industrial applicability;			
Box No. VI Certain docume		, such statement				
Box No. VII Certain defects	Box No. VII Certain defects in the international application					
Box No. VIII Certain observa	tions on the internation	onal application	·			
Date of submission of the demand		Date of completion of	this report			
21 April 2004 (21.04.2004)		31 Jan	nuary 2005 (31.01.2005)			
Name and mailing address of the IPEA/JP		Authorized officer				
Facsimile No.		Telephone No.				

Translation

International application No.

PCT/JP2003/014463

Box No.	. 1 D	asis of the report
		o the language, this report is based on the international application in the language in which it was filed, unless icated under this item.
	This rewhich	eport is based on translations from the original language into the following language, is language of a translation furnished for the purpose of:
	i i	nternational search (under Rules 12.3 and 23.1(b))
	р	publication of the international application (under Rule 12.4)
	iı 🗍	nternational preliminary examination (under Rules 55.2 and/or 55.3)
furni.	shed to t are not a	to the elements of the international application, this report is based on (replacement sheets which have been the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" nnexed to this report):
		ernational application as originally filed/furnished
		cription:
	pages	, as originally filed/furnished received by this Authority on
	pages* pages*	received by this Authority on
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	pages*	received by this Authority on
	pages*	
	a seque	ence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
, \Box	The area	nendments have resulted in the cancellation of:
3		
	<u></u> "	he description, pages
•	=	he claims, Nos.
	=	he drawings, sheets/figs
	=	he sequence listing (specify):
	a	any table(s) related to sequence listing (specify):
4	This re	eport has been established as if (some of) the amendments annexed to this report and listed below had not been
	made,	since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box
	<u>`</u>	70.2(c)).
		he description, pages
	=	he claims, Nos.
		he drawings, sheets/figs
	=	he sequence listing (specify):
	a	any table(s) related to sequence listing (specify):
* If ite	m 4 appl	lies, some or all of those sheets may be marked "superseded."

International application No. PCT/JP 03/14463

V. Reasoned statement under Article 3 citations and explanations supporting		ovelty, inventive step or industrial applicabil	ity;
1. Statement			
Novelty (N)	Claims	1-18	YES
	Claims		NO
Inventive step (IS)	Claims	4-8, 15, 18	YES
	Claims	1-3, 9-14, 16, 17	NO
Industrial applicability (IA)	Claims	1-18	YES
`	Claims		NO

2. Citations and explanations

- Document 1: JP 1-142274 A (Mitsui & Co., Ltd.), 05 June, 1989
- Document 2: Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 55405/1987 (Laid-open No. 162975/1988) (Mitsubishi Heavy Industries, Ltd.), 25 October, 1988
- Document 3: JP 2001-268994 A (Sanken Electric Co., Ltd.), 28 September, 2001
- Document 4: JP 2002-136192 A (Sanken Electric Co., Ltd.), 10 May, 2002
- Document 5: JP 2002-315395 A (Mitsubishi Heavy Industries, Ltd.), 25 October, 2002
- Document 6: JP 8-107637 A (Shinko Electric Co., Ltd.),
 23 April, 1996
- Document 7: JP 2002-27679 A (Mitsubishi Heavy Industries, ltd.), 25 January 2002

The invention set forth in claim 1 does not involve an inventive step in the light of documents 1 and 2 cited in the international search report. It would be easy for a person skilled in the art to use the fixed pitch angle windmill, which is disclosed in document 2, in the power generator disclosed in document 1.

The inventions set forth in claims 2 and 3 do not involve an inventive step in the light of documents 1, 2, and 6 cited in the international search report. It would be easy for a person skilled in the art to combine the power generator disclosed in document 1 with a solar-powered generator, such as that disclosed in document 6.

The inventions set forth in claims 9-11 do not involve an inventive step in the light of documents 1-3 cited in the international search report. It would be easy for a person skilled in the art to configure the power generator disclosed in document 1 in the manner described in document 3 so that any increase in rotational speed is suppressed by raising the output voltage of the power converter.

The inventions set forth in claims 12 and 13 do not involve an inventive step in the light of documents 1, 2 and 4 cited in the international search report. It would be easy for a person skilled in the art to configure the power generator disclosed in document 1 in the manner described in document 4 so that any increase in rotational speed is suppressed by increasing the ratio of the input voltage to the output voltage of the power converter.

The inventions set forth in claims 14 and 16 do not involve an inventive step in the light of documents 2 and 5 (page 3, left column, line 48 to right column, line 11) cited in the international search report. It would be easy for a person skilled in the art to provide the short-circuiting means disclosed in document 5 to the power generator that uses a fixed pitch angle windmill, which is disclosed in document 2.

International application No. PCT/JP 03/14463

The invention set forth in claim 17 does not involve an inventive step in the light of document 2 cited in the international search report and newly cited document 7 (page 4, left column, lines 1-11). It would be easy for a person skilled in the art to provide the means for predicting windmill output disclosed in document 7 to the power generator that uses a fixed pitch angle windmill, which is disclosed in document 2.

The inventions set forth in claims 4-8, 15 and 18 are not disclosed in any of the documents cited in the international search report and are not obvious to a person skilled in the art.